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- 25. In a conventional over the highway truck or tractor vehicle having a forwardly located engine and hood, an improved engine air intake system comprising:
 - a) the hood having a generally vertical side portion defining an air inlet;
 - b) an apertured grating secured to the hood and positioned in the inlet;
- c) a flow diverting wall mounted within the hood and positioned in a generally vertical orientation when the vehicle is in use;
- d) the wall being spaced from and generally parallel to the inlet to define a part of a relatively large initial portion of an air flow path from the inlet to the engine and to divert upwardly air flowing inwardly from the inlet;
- e) structure providing a conduit delineating a portion of the path, the conduit communicating the initial portion with the engine; and,
- f) other structure delineating a water collection and disposal trough beneath the initial portion of the path.
- 26. In an over the highway conventional truck or tractor an improved air intake system comprising:
- a) a pivotally mounted engine hood having a top and two side portions, the hood portions defining an inverted squared "u" configuration in transverse cross section, the hood being pivotal between closed and engine access positions;
- b) one of the side portions including a smooth outer surface having a through air intake opening, the opening being defined by a perimetral hood flange extending inwardly from the outer surface;
- c) a self securing grating secured in the opening and including flange and skirt recess portions defining a perimetral gasket recess;
- d) a gasket in the recess and in engagement with the hood flange, the gasket providing an endless water seal around the opening;
- e) the grating having outermost surfaces disposed essentially in an imaginary extension of a contour generated by said side portion outer surface;

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- the grating having baffle portions each having spaced ends connected to one of the recess portions, the baffle portions delineating air intake passages therebetween;
 - g) structure delineating an air flow and water separation passage extending from the intake passages to an engine;
 - h) the grating flange portion being a perimetral flange extending inwardly from the outermost surfaces, the grating and hood flanges being spaced to delineate a water entrapment space circumscribing said water seal; and,
 - the grating flange having a base and a forward section extending upwardly and rearwardly from the base.
 - 27. In an over the highway conventional truck or tractor an improved air intake system comprising:
 - a) a pivotally mounted engine hood having a top and two side portions, the hood portions defining an inverted squared "u" configuration in transverse cross section, the hood being pivotal between closed and engine access positions;
 - b) one of the side portions including a smooth outer surface having a through air intake opening, the opening being defined by a perimetral hood flange extending inwardly from the outer surface;
 - c) a self securing grating secured in the opening and including flange and skirt recess portions defining a perimetral gasket recess;
 - d) a gasket in the recess and in engagement with the hood flange, the gasket providing an endless water seal around the opening;
 - e) the grating having outermost surfaces disposed essentially in an imaginary extension of a contour generated by said side portion outer surface;
 - f) the grating having baffle portions each having spaced ends connected to one of the recess portions, the baffle portions delineating air intake passages therebetween; and,
 - g) structure delineating an air flow and water separation passage extending from the intake passages to an engine; and,
 - h) each of the grating baffles sloping downwardly and rearwardly from a forward one of said ends.

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- 28. The system of Claim 27 wherein in each of the baffles also slopes inwardly and downwardly from an outer side edge to an inner side edge.
- 29. In an over the highway conventional truck or tractor an improved air intake system comprising:
- a) a pivotally mounted engine hood having a top and two side portions, the hood portions defining an inverted squared "u" configuration in transverse cross section, the hood being pivotal between closed and engine access positions;
- b) one of the side portions including a smooth outer surface having a through air intake opening, the opening being defined by a perimetral hood flange extending inwardly from the outer surface;
- c) a self securing grating secured in the opening and including flange and skirt recess portions defining a perimetral gasket recess;
- a gasket in the recess and in engagement with the hood flange, the gasket providing an endless water seal around the opening;
- e) the grating having outermost surfaces disposed essentially in an imaginary extension of a contour generated by said side portion outer surface;
- f) the grating having baffle portions each having spaced ends connected to one of the recess portions, the baffle portions delineating air intake passages therebetween; and,
- g) structure delineating an air flow and water separation passage extending from the intake passages to an engine;
- h) the separable parts including a flexible tubular boot of corrugated configuration; and,
 - i) a cage mounted in an outlet opening of the boot.